

Nucleic acid probes for the detection and identification of fungi

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Abstract

Nucleic acid probes and primers are described for detecting fungi that cause disease in humans and animals, as well as spoilage of food and beverages. These probes can detect rRNA, rDNA or polymerase chain reaction products from a majority of fungi in clinical, environmental or food samples. Nucleic acid hybridization assay probes specific for *Acremonium* sp., *Aspergillus clavatus*, *Aspergillus flavus*, *Aspergillus fumigatus*, *Aspergillus glaucus*, *Aspergillus nidulans*, *Aspergillus niger*, *Aspergillus ochraceus*, *Aspergillus terreus*, *Aspergillus unguis*, *Aspergillus ustus*, *Beauveria* sp., *Bipolaris* sp., *Blastoschizomyces* sp., *Blastomyces dermatitidis*, *Candida albicans*, *Candida glabrata*, *Candida guilliermondii*, *Candida kefyr*, *Candida krusei*, *Candida lusitanae*, *Candida parapsilosis*, *Candida tropicalis*, *Chrysosporium* sp., *Cladosporium* sp., *Coccidioides immitis*, *Cryptococcus neoformans* var *gattii* serotype B, *Cryptococcus neoformans* serotype A, *Cryptococcus laurentii*, *Cryptococcus terreus*, *Curvularia* sp., *Fusarium* sp., *Filobasidium capsuligenum*, *Filobasidiella* (*Cryptococcus*) *neoformans* var *bacillispora* serotype C, *Filobasidiella* (*Cryptococcus*) *neoformans* var *neoformans* serotype D, *Filobasidium uniguttulatum*, *Geotrichum* sp., *Histoplasma capsulatum*, *Malbranchea* sp., *Mucor* sp., *Paecilomyces* sp., *Penicillium* species, *Pseudallescheria boydii*, *Rhizopus* sp., *Sporethrix schenkii*, *Scopulariopsis brevicaulis*, *Scopulariopsis brumptii*, *Saccharomyces cerevisiae*, and *Trichosporon beigelii* are also described.

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